



Massimo Figari

Associate professor

✉ massimo.figari@unige.it

☎ +39 3358149240

Education and training

1989

Master Degree in Naval Architecture and Marine Engineering

110/110 e lode

Università degli Studi di Genova - Genova - IT

Academic experience

2002 - ONGOING

Associate Professor

Università degli Studi di Genova - Genova - IT

Head of Master Degree and Bachelor Degree in Naval Architecture and Marine Engineering

1994 - 2002

Researcher

Università degli Studi di Genova - Genova - IT

Language skills

English

Independent

Research interests

Scientific interests:

- dynamic simulation of marine systems
- reliability and safety of marine systems
- environmental impacts of ships and their consequence on the design

Research activity is documented by about 100 technical papers.

M. FIGARI; DAMONTE R; PORCARI R

Ultimate Bending Moment of the Ship Hull Girder

1997

INTERNATIONAL SHIPBUILDING PROGRESS

G. BENVENUTO; FIGARI M.

Environmental Impact Assessment of Short-Sea Shipping

1997

TRANSACTIONS - THE SOCIETY OF NAVAL ARCHITECTS AND MARINE ENGINEERS

U. Campora; M. Figari

Numerical Simulation of Ship Propulsion Transients and Full Scale Validation

2003

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS. PROCEEDINGS PART M, JOURNAL OF ENGINEERING FOR THE MARITIME ENVIRONMENT

M.Figari; M. Altosole

Dynamic behaviour and stability of marine propulsion systems

2007

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS. PROCEEDINGS PART M, JOURNAL OF ENGINEERING FOR THE MARITIME ENVIRONMENT

ALTOSOLE M.; BENVENUTO G.; FIGARI M.; CAMPORA U.

Real-time simulation of a COGAG naval ship propulsion system

2009

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS. PROCEEDINGS PART M, JOURNAL OF ENGINEERING FOR THE MARITIME ENVIRONMENT

M. FIGARI; G. VIGNA; S. VIGNOLO

Dynamic simulation of the vertical-longitudinal motion for a variable displacement, dynamically supported, high speed craft

2011

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS. PROCEEDINGS PART M, JOURNAL OF ENGINEERING FOR THE MARITIME ENVIRONMENT

M. Altosole; M. Figari

EFFECTIVE SIMPLE METHODS FOR NUMERICAL MODELLING OF MARINE ENGINES IN SHIP PROPULSION CONTROL SYSTEMS DESIGN

2011

JOURNAL OF NAVAL ARCHITECTURE AND MARINE ENGINEERING

M.Altosole; G. Benvenuto; M. Figari; U. Campora

Dimensionless numerical approaches for the performance prediction of marine waterjet propulsion units

2012

INTERNATIONAL JOURNAL OF ROTATING MACHINERY

Marco Altosole; Massimo Figari; Michele Viviani

VR simulation for the propulsive performance analysis of high-speed yachts

2013

INTERNATIONAL JOURNAL OF ENGINEERING SIMULATION

A. Coraddu; M. Figari; S. Savio

Numerical investigation on ship energy efficiency by Monte Carlo simulation

2014

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS. PROCEEDINGS PART M, JOURNAL OF ENGINEERING FOR THE MARITIME ENVIRONMENT

ALTOSOLE, M; VIGNOLO, S; FIGARI, M; VIVIANI, M; MARTELLI, M;
Numerical modelling of propulsion, control and ship motions in 6 degrees
of freedom
2014
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS.
PROCEEDINGS PART M, JOURNAL OF ENGINEERING FOR THE MARITIME
ENVIRONMENT
M. Altosole; U. Campora; M. Martelli; M. Figari
Performance decay analysis of a marine gas turbine propulsion system
2014
JOURNAL OF SHIP RESEARCH
M. Martelli; M. Figari; M. Altosole; S. Vignolo
Controllable pitch propeller actuating mechanism, modelling and
simulation
2014
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS.
PROCEEDINGS PART M, JOURNAL OF ENGINEERING FOR THE MARITIME
ENVIRONMENT
M. Altosole; G. Buglioni; M. Figari
Alternative propulsion technologies for fishing vessels: A case study
2014
INTERNATIONAL REVIEW OF MECHANICAL ENGINEERING
M. Altosole; M. Figari; M. Martelli; M. Rocca
Simulation techniques for the propulsion retrofitting of
the tall ship "Amerigo Vespucci"
2014
POLARIS
A. Coraddu; L. Oneto; A. Ghio; S. Savio; D. Anguita; and M. Figari
Machine learning approaches for improving condition-based maintenance
of naval propulsion plants
2016
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS.
PROCEEDINGS PART M, JOURNAL OF ENGINEERING FOR THE MARITIME
ENVIRONMENT
Donnarumma, S.; Figari, M.; Martelli, M.; Vignolo, S.; Viviani, M.
Design and Validation of Dynamic Positioning for Marine Systems: a Case
Study
2018
IEEE JOURNAL OF OCEANIC ENGINEERING
Raphael, Zaccone; Massimo, Figari
ENERGY EFFICIENT SHIP VOYAGE PLANNING BY 3D DYNAMIC PROGRAMMING
2017
THE JOURNAL OF OCEAN TECHNOLOGY
Martelli, M.; Figari, M.
Real-Time model-based design for CODLAG propulsion control strategies
2017
OCEAN ENGINEERING
Zaccone, R.; Ottaviani, E.; Figari, M.; Altosole, M.
Ship voyage optimization for safe and energy-efficient navigation:

A dynamic programming approach
2018
OCEAN ENGINEERING